

## Electronic Acknowledgement Receipt

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|---|---|
| <b>EFS ID:</b>                              | 5117776   |
| <b>Application Number:</b>                  | 10809538  |
| <b>International Application Number:</b>    |   |
| <b>Confirmation Number:</b>                 | 6148  |
| <b>Title of Invention:</b>                  | Interference and noise estimation in an OFDM system |
| <b>First Named Inventor/Applicant Name:</b> | Arak Sutivong                                       |
| <b>Customer Number:</b>                     | 23696   |
| <b>Filer:</b>                               | Jeffrey D. Jacobs/Gina Golia                        |
| <b>Filer Authorized By:</b>                 | Jeffrey D. Jacobs                                   |
| <b>Attorney Docket Number:</b>              | 030226  |
| <b>Receipt Date:</b>                        | 08-APR-2009   |
| <b>Filing Date:</b>                         | 24-MAR-2004   |
| <b>Time Stamp:</b>                          | 13:17:00  |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                         |

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| Payment Type                             | Deposit Account |
| Payment was successfully received in RAM | \$180           |
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## File Listing:

| Document Number  | Document Description                                    | File Name                            | File Size(Bytes)/<br>Message Digest                    | Multi Part /.zip | Pages (if appl.) |
|--|---|--------------------------------------|--|------------------|------------------|
| 1  | Information Disclosure Statement (IDS)<br>Filed (5B/08) | 030226_2009-04-07_IDS_SIG<br>NED.pdf | 1684002<br><br>23d585c3889a330ff7c3559ca3a1ff2ad0bce4d | no               | 4                |
| <b>Warnings:</b>   |   |                                      |  |                  |                  |
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| 2  | NPL Documents   | 030226WO_2005-11-08_ISR.pdf          | 64816<br><br>576655793a79d84a1729204a21d36183d7b1e1    | no               | 1                |
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| 3  | NPL Documents   | 030226WO_2005-11-08_WO.<br>pdf       | 225035<br><br>e50e2ac0aebc0027333a65ca759e7b1581374e1e | no               | 5                |
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| 4  | NPL Documents   | 030226WO_2006-04-19_IPRP.<br>pdf     | 282527<br><br>ee5ac5d8b679d71e11ff0721c8fe37125c0fa8b  | no               | 5                |
| <b>Warnings:</b>   |   |                                      |  |                  |                  |
| <b>Information:</b>  |   |                                      |  |                  |                  |
| 5  | Fee Worksheet (PTO-06)                                  | fee-info.pdf                         | 29857<br><br>35198b7b66d6ec01ca6389602a3cd37792e969    | no               | 2                |
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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